Title (en)

SYNCHRONOUS ROTARY ELECTRIC MACHINE HAVING HYBRID-EXCITATION ROTOR

Title (de)

ELEKTRISCHE MASCHINE MIT SYNCHRONER DREHUNG UND EINEM HYBRIDERREGUNGSMOTOR

Title (fr)

MACHINE ELECTRIQUE TOURNANTE SYNCHRONE AVEC ROTOR A DOUBLE EXCITATION

Publication

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Application

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Abstract (en)

[origin: WO2012022863A2] The invention relates to a machine (1) having a rotor (11) including permanent magnets (PM) and field coils (EC). The magnets are housed in first axial recesses (E1) distributed within a circumferential portion of the magnetic body, thus defining circumferential polar sections. The coils are housed in second axial recesses (E2) distributed within an intermediate portion of the magnetic body. According to the invention, the circumferential polar section includes a third recess (E3), and a portion of the magnetic body forming a bridge having a height of around 0.7 mm to around 2 mm is retained between an apex of said recess and an outer pole face.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2012022863A2

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